

Claims:

1. (Currently Amended) A cable management rack for routing cables thereon, said rack having a front side and a rear side and said rack comprising:

a frame;

~~first and second frame-mountable components, each of said components having a plurality of ports configured for receiving an end of one of said cables therein; and~~

a frame-mountable pass-through tray disposed on said frame ~~between said first and second components~~, said pass-through tray for routing said cables between said front side of said rack and said rear side of said rack, said pass-through tray including at least one upstanding spool disposed substantially at a center of said tray.

2. (Original) A rack in accordance with claim 1 wherein said tray includes a base for supporting said cables thereon and at least one mounting portion extending generally from said base for permitting said tray to be mounted to said frame.

3. (Original) A rack in accordance with claim 2 wherein said pass-through tray includes at least one side wall for retaining said cables on said base.

4. (Original) A rack in accordance with claim 3 wherein said side wall includes a bend radius control portion.

5. (Original) A rack in accordance with claim 2 wherein said tray includes a rear channel for routing cables generally transversely to the direction they take when being routed between said front and rear sides of said rack.

6. (Original) A rack in accordance with claim 5 wherein said rear channel of said tray includes a waterfall for routing cables downwardly out of said rear channel.

7. (Original) A rack in accordance with claim 6 wherein said rack further includes a rear vertical elevator and said waterfall routes cables between said rear channel and said rear vertical elevator.

8. (Currently Amended) A rack in accordance with claim 5 wherein said base includes said at least one upstanding spool thereon for providing bend radius support for cables routed between said base of said tray and said rear channel.

9. (Currently Amended) A pass-through tray mountable to a cable management rack having front and rear sides ~~between a pair of rack-mountable components~~, said pass-through tray for routing cables between said front side of said rack and said rear side of said rack and said tray comprising:

a base for supporting said cables thereon; and
at least one mounting portion extending generally from said base for permitting said tray to be mounted to said rack; and
at least one upstanding spool disposed substantially at a center of said base.

10. (Original) A pass-through tray in accordance with claim 9 wherein said tray further includes at least one side wall for retaining said cables on said base.

11. (Original) A pass-through tray in accordance with claim 10 wherein said side wall includes a bend radius control portion.

12. (Original) A pass-through tray in accordance with claim 9 wherein said tray includes a rear channel for routing cables generally transversely to the direction they take when being routed between said front and rear sides of said rack.

13. (Original) A pass-through tray in accordance with claim 12 wherein said rear channel of said tray includes a waterfall for routing cables downwardly out of said rear channel.

14. (Original) A pass-through tray in accordance with claim 13 wherein said rack further includes a rear vertical elevator and said waterfall routes cables between said rear channel and said rear vertical elevator.

15. (Currently Amended) A pass-through tray in accordance with claim 12 wherein ~~said base includes at least one upstanding spool thereon for providing~~provides bend radius support for cables routed between said base of said tray and said rear channel.

16-19. (Withdrawn)

20. (Currently Amended) A multiple-rack system of cable management racks for routing cables thereon and therebetween, at least one of said racks having a front side and a rear side and said one rack comprising:

a frame;

~~first and second frame-mountable components, each of said components having a plurality of ports configured for receiving an end of one of said cables therein; and~~

~~a frame-mountable pass-through tray disposed on said frame between said first and second components, said pass-through tray for routing said cables between said front side of said one rack and said rear side of said one rack, said pass-through tray including at least one upstanding spool that is disposed at a center of said tray.~~

21. (Currently Amended) A system of racks in accordance with claim 20 wherein said system includes a pair of adjacent racks, each of said adjacent racks comprising:

a frame;

~~first and second frame-mountable components, each of said components having a plurality of ports configured for receiving an end of one of said cables therein; and~~

~~a frame-mountable pass-through tray disposed on said frame between said first and second components, said pass-through tray for routing said cables between said front side of said one rack and said rear side of said one rack, said pass-through tray including at least one upstanding spool that is disposed at a center of said tray.~~

22. (Original) A rack in accordance with claim 21 wherein each of said pass-through trays includes a rear channel and said rear channels of said pass-through trays are connected such that said cables may pass directly from one rear channel to the other.

23-31. (Withdrawn)

32. (New) A rack in accordance with claim 1 wherein said at least one upstanding spool is freestanding such that said at least one upstanding spool is isolated from all walls of said tray.

33. (New) A tray in accordance with claim 9 wherein said at least one upstanding spool is freestanding such that said at least one upstanding spool is isolated from all walls of said tray.

34. (New) A multiple-rack system in accordance with claim 20 wherein said at least one upstanding spool is freestanding such that said at least one upstanding spool is isolated from all walls of said tray.

35. (New) A rack in accordance with claim 3 wherein said tray further comprises at least one mounting flange through which said tray is mounted to said frame, said mounting flange extending substantially perpendicularly from said side wall.

36. (New) A tray in accordance with claim 10 wherein said mounting portion extends substantially perpendicularly from said side wall.

37. (New) A multiple-rack system in accordance with claim 20 wherein said tray further comprises:

at least one side wall for retaining said cables on said tray; and
at least one mounting flange through which said tray is mounted to said frame, said mounting flange extending substantially perpendicularly from said side wall.

38. (New) A rack in accordance with claim 1 wherein said tray further comprises at least one mounting flange through which said tray is mounted to said frame, said mounting flange isolated from all portions of said cables contacting said tray.

39. (New) A tray in accordance with claim 11 further comprising at least one mounting flange through which said tray is mounted to said frame, said mounting flange isolated from all portions of said cables contacting said tray.

40. (New) A multiple-rack system in accordance with claim 20 wherein said tray further comprises:

at least one side wall for retaining said cables on said tray; and

at least one mounting flange through which said tray is mounted to said frame, said mounting flange extending substantially perpendicularly from said side wall.

41. (New) A rack in accordance with claim 4 wherein said tray further comprises at least one bend radius control extension extending substantially perpendicularly from the side wall proximate to the bend radius control portion.

42. (New) A tray in accordance with claim 11 further comprising at least one bend radius control extension extending substantially perpendicularly from the side wall proximate to the bend radius control portion.

43. (New) A multiple-rack system in accordance with claim 20 wherein said tray further comprises:

at least one side wall for retaining said cables on said tray, said side wall including a bend radius control portion; and

at least one bend radius control extension extending substantially perpendicularly from the side wall proximate to the bend radius control portion.

44. (New) A rack in accordance with claim 6 wherein said waterfall routes cables substantially parallel to the direction they take when being routed between said front and rear sides of said rack.

45. (New) A tray in accordance with claim 13 wherein said waterfall routs cables substantially parallel to the direction they take when being routed between said front and rear sides of said rack.

46. (New) A multiple-rack system in accordance with claim 20 wherein a direction of extension between said front and rear sides of said rack is a first direction, and said tray further comprises a rear channel that contains:

a trough extending in a second direction substantially perpendicular to the first direction; and

a waterfall for routing cables downwardly out of said rear channel from said trough, said waterfall extending substantially parallel to the first direction.

47. (New) A rack in accordance with claim 1 wherein said tray further comprises mounting flanges through which said tray is mounted to said frame at both said front side of said rack and said rear side of said rack.

48. (New) A tray in accordance with claim 11 further comprising mounting flanges through which said tray is mounted to said frame at both said front side of said rack and said rear side of said rack.

49. (New) A multiple-rack system in accordance with claim 20 wherein said tray further comprises mounting flanges through which said tray is mounted to said frame at both said front side of said rack and said rear side of said rack.